## PATENT COOPERATION TREATY

# **PCT**

## INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference							
P00033725-P0	FOR FURTHER ACTION	See Form PCT/IPEA/416					
International application No.	International filing date (day/month/year)	Priority date (day/month/year)					
PCT/JP2004/002958	08.03.2004	17.03.2003					
International Patent Classification (IPC) or national classification and IPC							
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Applicant		· · · · · · · · · · · · · · · · · · ·					
MATSUSHITA ELECTRIC I	NDUSTRIAL CO LTD						
		···					
This report is the international prelim under Article 35 and transmitted to the	inary examination report, established by this applicant according to Article 36.	International Preliminary Examining Authority					
2. This REPORT consists of a total of	A						
3. This report is also accompanied by AN	NEXES, comprising:						
a. (sent to the applicant and	to the International Bureau) a total of	sheets, as follows:					
sheets of the descript	ion, claims and/or drawings which have been	amended and are the basis for this report and/or ale 70.16 and Section 607 of the Administrative					
Instructions).	inications authorized by this Authority (see Ri	the 70.16 and Section 607 of the Administrative					
sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental							
Box.							
b. (sent to the International E	Sureau only) a total of (indicate type and numb	er of electronic carrier(s))					
, containing a sequence listing and/or tables							
related thereto, in computer readable form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the Administrative Instructions).							
4. This report contains indications relating							
Box No. I Basis of the	report						
Box No. II Priority							
Box No. III Non-establis	hment of opinion with regard to novelty, inven	nment of opinion with regard to novelty, inventive step and industrial applicability					
Box No. IV Lack of unit	y of invention						
Box No. V Reasoned sta	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement						
Box No. VI Certain docu	Certain documents cited						
Box No. VII Certain defe	Certain defects in the international application						
Box No. VIII Certain obse	Box No. VIII Certain observations on the international application						
Date of submission of the demand	his report						
		•					
Name and mailing address of the IPEA/JP	Authorized officer						
Facsimile No.	Telephone No.						

Translation

### INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.
PCT/JP2004/002958

Box	No. I	Basis of the report			
1.		regard to the language, this report is based on the internation ated under this item.	al application in the language in whi	ch it was filed, unless otherwise	
	This report is based on translations from the original language into the following language which is the language of a translation furnished for the purposes of:				
		international search (Rule 12.3 and 23.1(b))			
		publication of the international application (Rule 12.4)			
•	With	international preliminary examination (Rule 55.2 and/o	•	ts which have been furnished to the	
2.	With regard to the elements of the international application, this report is based on (replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report):				
	Ц	the international application as originally filed/furnished			
	$\boxtimes$	the description:			
		pages 1-4,6-18		as originally filed/furnished	
		pages* 5	received by this Authority on	1.11.2004	
		pages*	received by this Authority on		
	$\boxtimes$	the claims:			
		nos. 2-28		as originally filed/furnished	
		nos.*	as amended (together wi	ith any statement) under Article 19	
		nos.* 1	received by this Authority on 1:	1.11.2004	
		nos.*	received by this Authority on		
	$\boxtimes$	the drawings:			
		sheets 1-21		as originally filed/furnished	
		sheets*	received by this Authority on		
		sheets*			
	$\Box$	a sequence listing and/or any related table(s) – see Suppleme		na	
_	$\Box$		ental Box Relating to bequence Listin	ng.	
3.	Ш	The amendments have resulted in the cancellation of:			
		the description, pages			
		the claims, nos.			
			<del> </del>		
		the sequence listing (specify):			
	_				
4.	Ш	This report has been established as if (some of) the amenda they have been considered to go beyond the disclosure as fil	ed, as indicated in the Supplemental	Box (Rule 70.2(c)).	
		the description, pages			
		the claims, nos.			
		the drawings, sheets/figs			
		the sequence listing (specify):			
		any table(s) related to sequence listing (specify):			
*	If ite	em 4 applies, some or all of those sheets may be marked "sup	erseded."		

#### INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

citations and explanations supporting such statement

2000

Box No. V

International application No. PCT/JP2004/002958

YES NO

YES NO

YES NO

1.	Statement				
	Novelty (N)	Claims	1-28		
		Claims			
	Inventive step (IS)		10, 12, 17, 19, 24, 25		
		Claims	1-9, 11, 13-16, 18, 20-23, 26-28		
	Industrial applicability (IA)	Claims	1-28		
		Claims			
2.					
<b> </b> <sup>2.</sup>	Citations and explanations (Rule 70.7)				
	Document 1: JP	9-8883	37 A (Matsushita Refrigeration Co.),		
	31	March	1997		
	Document 2: JP	11-34	1860 A (Matsushita Electric		
	Industrial Co., Ltd.), 10 December 1999				
	Document 3: JP	2002-3	330599 A (Matsushita Electric		
	Ind	Industrial Co., Ltd.), 15 November 2002			
	Document 4: JP	2001-	37281 A (Matsushita Electric		
	Industrial Co., Ltd.), 9 February 2001				
	Document 5: JP	2000-	78880 A (Calsonic Corp.), 14 March		

Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability;

Document 6: JP 2002-125387 A (Sanyo Electric Co., Ltd.), 26 April 2002

Document 7: JP 9-285177 A (Fujitsu General Limited), 31
October 1997

Document 8: JP 7-87782 A (Toshiba Corporation), 31 March 1995

The inventions set forth in claims 1 and 8 do not involve an inventive step in the light of documents 1 and 2 cited in the international search report. Document 1 (paragraphs [0064] to [0067]; fig. 2) sets forth a relation between motor speed and torque, wherein the drive region as a DC motor and the drive region as a

International application No. PCT/JP2004/002958

Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

synchronous motor are disclosed, and it can be inferred from document 1 that at a predetermined torque, it is possible to operate at a higher engine speed by driving as a synchronous motor rather than driving as a DC motor. Meanwhile, it is common general technical knowledge in the field of motor control that a motor operates more efficiently when driven as a DC motor rather than when it is driven as a synchronous motor. It would therefore be easy for a person skilled in the art to conceive of driving a motor as a DC motor at low engine speed not exceeding a predetermined engine speed, and as a synchronous motor at high engine speed exceeding a predetermined engine speed, in the motor driving method and driving device set forth in document 1.

The inventions set forth in claims 2 to 7, 9, 11, 13 to 16, 18, 20 to 23 and 26 to 28 do not involve an inventive step in the light of documents 1 to 8 cited in the international search report, as stated in the written opinion dated 29 June 2004.

The inventions set forth in claims 10, 12, 17, 19, 24 and 25 involve an inventive step in relation to the documents cited in the international search report, as stated in the written opinion mentioned above.